

River Scenes at the Tennessee Aquarium

The building's exterior walls presented an opportunity to integrate artwork with the architecture, to both enrich the facades and to reinforce the Aquarium's interior exhibition of habitats and animals. A linear timeline focused on the Tennessee region could be developed as a necklace of pearls, each a vignette of the river's history.

Italian Renaissance bas-reliefs were the source for this idea, particularly the biblical stories told in bronze by Ghiberti in Florence. To develop the work an appropriate artist had to be found. It occurred to me that Claire Nivola would be equal to the task. An American artist, Ms. Nivola had not worked before in bas-relief, but her talents and lifelong exposure to the work of a master - Costantino Nivola, her Sardinian father - had given her a sophisticated understanding of the medium.

Expertise in Tennessee history was necessary to give structure and balance to the timeline, to identify important stories, themes, and events, and to find visual reference material as potential inspiration to the artist. Consulting with many people steeped in Tennessee history, writer and museum consultant Sherry Kafka Wagner undertook the research, with the assistance of her associate, Barbara Meyer. We are grateful to the many who helped, particularly Dr. Nicholas Honerkamp, Chief Jonathan L. Taylor, Dr.

Charles Hudson, Ms. Clara Swann, Mr. Carson Camp, and Ms. Deborah Jean Warner. Guided by experts in history and local lore, the search in libraries throughout Tennessee and the nation yielded stories to illustrate and suggested many extraordinary images.

The timeline addresses such themes as myths, rituals and lifestyles of the Native Americans, the arrival of the Europeans, the coming of new settlers with their own myths, rituals, and lifestyles, new claims and settlements, changes in the land and river, displacement of the Native Americans, the growth of new industries and transportation, problems deriving from overuse of the land, the creation of TVA to deal with those problems, the river's present life and a hint of the future.

We hope that Claire Nivola's fifty-three medallions, the result of this collaboration, will suggest the many layers of the past that can be peeled away by any one inclined to examine the rich heritage of this river valley.

Peter Chermayeff



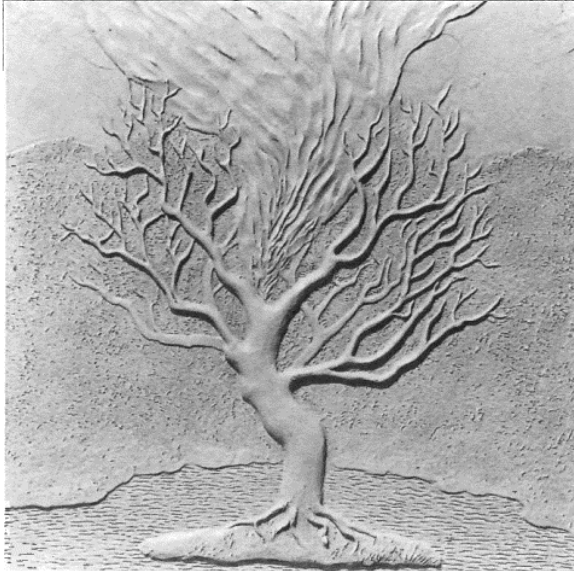
Medallion 1 Text

In the mountains that give birth to the Tennessee River, the Cherokee live and tell stories of how the place came to be. In the beginning, says one story, all the animals dwelled "beyond the arch" in a crowded place. Longing for a new home, they sent Waterbeetle to find what was below the water. He brought up mud which grew into a large island, fastened to the sky by four cords. The land was soft, flat, and very wet. Anxious to inhabit this place, the animals sent different birds to scout for dry land, but time after time the messengers returned to say there was no place where a bird could land. Finally, the Great Buzzard flew forth. He flew and flew and flew, finding nothing but soft ground. He flew so long that his great wings grew tired and began to droop. They struck the yielding earth and pushed it upwards, forming great mountains. The watching animals feared the tired bird would sweep the whole world into mountains, so they called him back. But Great Buzzard's wings had shaped the earth where the Cherokee came to dwell.



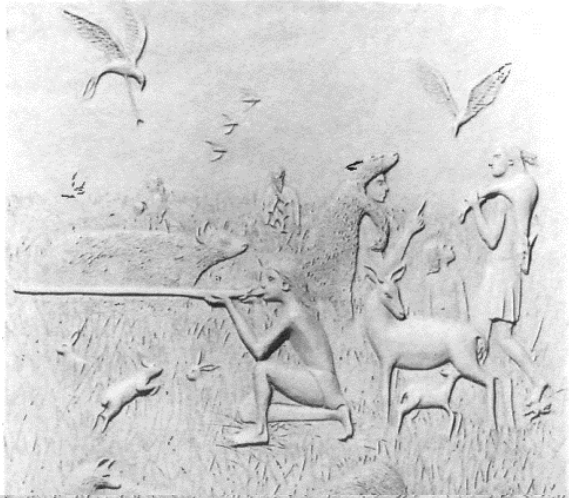
Medallion 2 Text

The Cherokee knew the Tennessee River as Yü'nwi Gûnahita, the Long Man. This giant had his head in the foothills and his feet down in the lowlands. In Cherokee rituals, the Long Man holds all things in his hands, pressing relentlessly forward, never stopping, bearing all before him. The Long Man speaks in murmurs which only the priest may interpret. Invoking Long Man with fasting and prayer, the People honored him on important occasions, seeking his aid in such human concerns as hunting and fishing, love and war, birth and death. Long Man stretches through the land, always moving, always speaking in a language only the blessed can decipher.



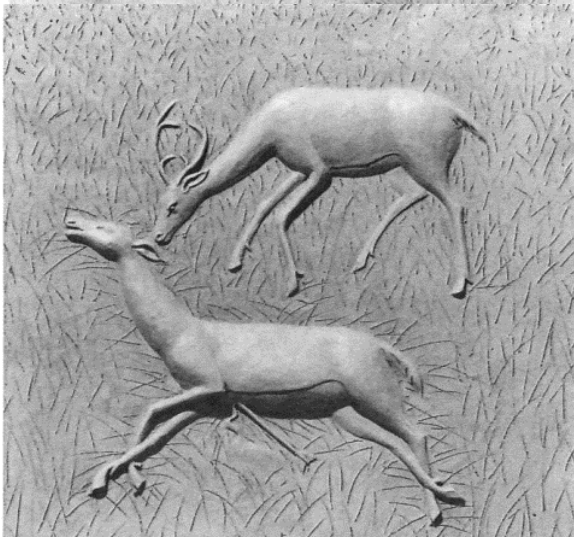
Medallion 3 Text

Mighty winds blew their cold breath across the land, and the animals suffered. There was no warmth anywhere. Then the Thunders sighted a hollow sycamore tree on an island in the river and sent their lightning to sear its center. The shivering animals sighted smoke winding from that treetop and held a council to determine how to capture the tree's heat. Certain animals tried. Raven flew down close to the tree and was scorched black. Turned back by a fiery blast, Screech Owl wound up with red eyes. Hooting Owl was nearly blinded by smoke and still has white rings round his eyes. To this day Black Racer Snake darts and doubles back, in motions that recall its narrow escape from the searing coals. Finally, Waterspider came forward. Since she could run on top of water as well as dive to the bottom, she offered to go. When Waterspider reached the island she spun a thread, wove it into a bowl, and with it, scooped a coal from the fire. She carried this burning coal back across the water in her bowl, and since that day The People have had fire.



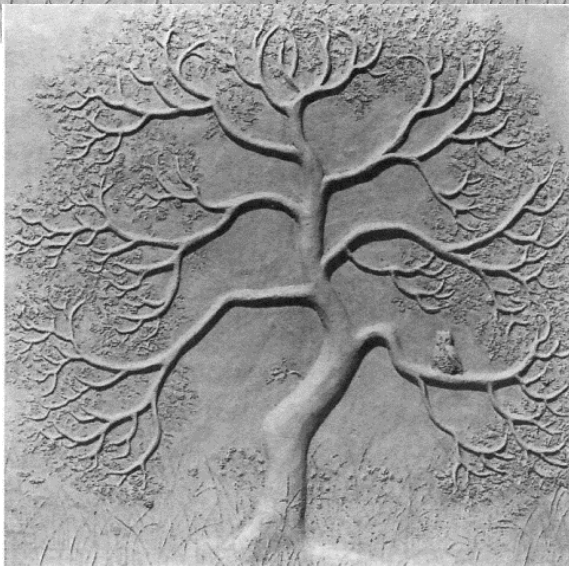
Medallion 4 Text

At first, all creation lived together in peace. Plants, animals, and humans spoke one language. But people began to multiply, spreading through the land and crowding the rest of creation. They began to kill animals with reckless carelessness. In defense, the animals called a council to consider how to restore balance in the world. They decided that each animal species would be capable of inflicting one particular illness on people, thus preventing mankind from crowding them out of existence. Now the once peaceful world became a place of separation. Men hunted animals; animals spread illness. Understanding between all living things was destroyed.



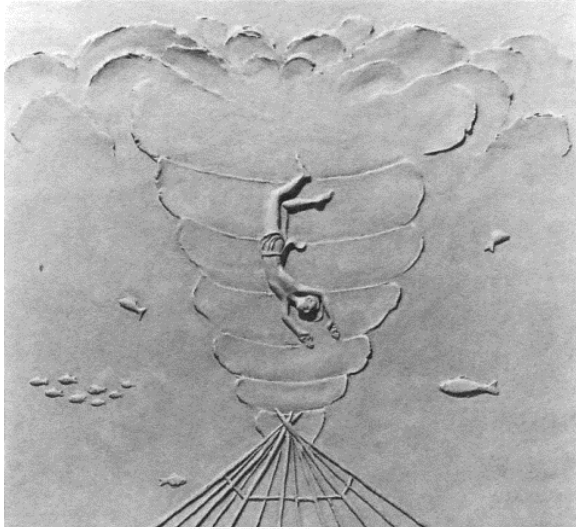
Medallion 5 Text

Deer, exalting in their swiftness, invented a disease that would rob man of his ability to move quickly. The deer sent word to the People: unless a hunter asks pardon for the offense of killing a deer he will be afflicted with rheumatism. Little Deer, swift as the wind and unable to be wounded, was sent to watch over the hunting grounds. When a deer is slain, Little Deer runs to the site, bending over the bloodstains and asking the fallen deer if he heard the hunter's prayers. If the answer is no, Little Deer enters the hunter's home and strikes him with illness. The man becomes crippled, never to hunt again.



Medallion 6 Text

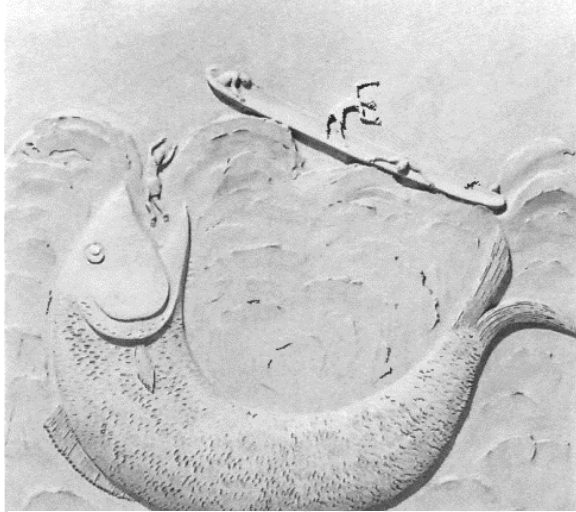
When the earth was new, all creation was asked to keep a seven day vigil. Only a few were able to do this, the evergreens and the owls among them. For this vigilance they were granted special powers. As the world fell into disharmony and animals took vengeance upon people by spreading ravaging diseases among them, the plants felt pity for suffering humanity. The plants offered people their special powers to cure illness and ease pain. The powerful evergreens and other plants placed themselves at the service of mankind, helping people in their distress.



Medallion 7 Text

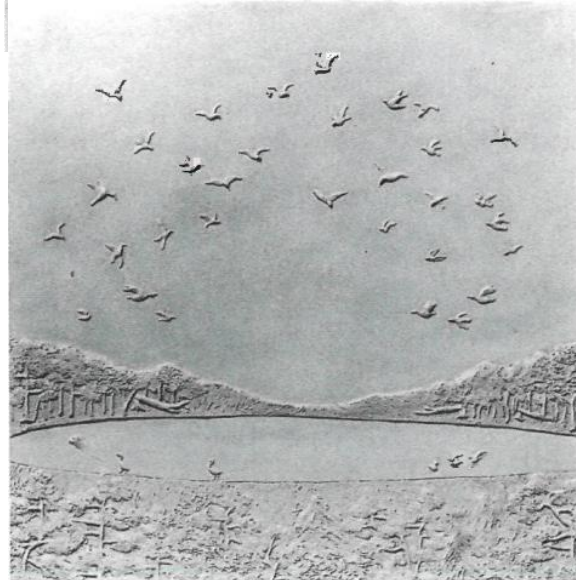
On the Tennessee River eight miles below Chattanooga is a place called the Suck, a series of whirlpools which erupt intermittently. To the Cherokee, this was the place where two men were suddenly dashed from their canoe and drawn into the whirlpool. One was swallowed by a huge fish, but the other swirled relentlessly downward until he reached the bottom. Suddenly the water opened below him. He could see through the roof beams of a large house.

A great company of people was gathered there, beckoning to him. But before he fell into those grasping hands the current caught him once again, whirling him up and out, finally pushing him into the shallow waters of safety.



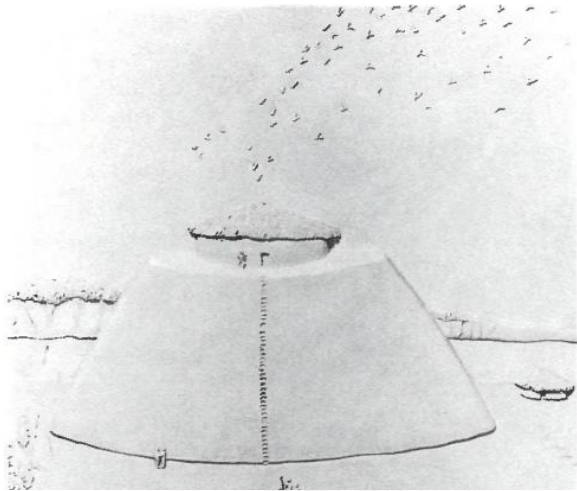
Medallion 8 Text

Where Toco Creek flows into the river above the mouth of Tellico, there lived a great fish called the Dakwa. One day a canoe carrying Cherokee warriors was making its way downriver when the Dakwa rose under the boat, throwing the men into the air. As they fell into the water the great fish swallowed one man, then dove to the river bottom. Inside the fish's belly the intrepid warrior discovered some mussel shells and began to cut his way out. Smarting with pain from these wounds, the Dakwa rose to the water's surface and the man escaped. But the warrior bore the sign of his ordeal. The fish's stomach juices had scalded his head; he was bald the rest of his days.



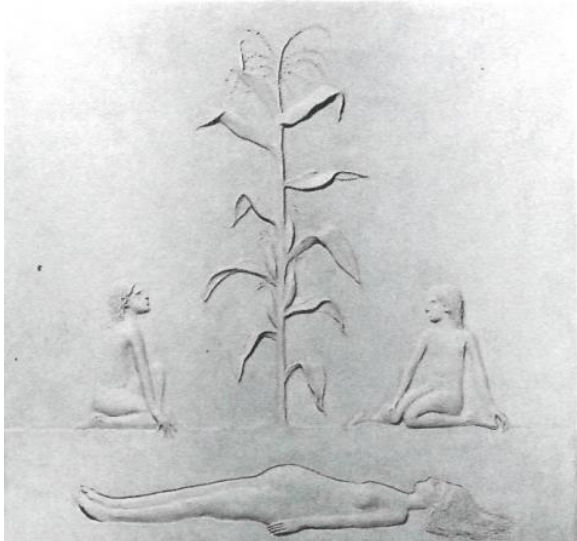
Medallion 9 Text

In the wild depths of the Great Smoky Mountains between Tennessee and North Carolina lies the enchanted lake known to the Cherokee as Atagahi. Only the animals can see this lake; only they know the way to its shores. Should a stray hunter happen upon the lake by accident, he would see only a dry flat space without bird, animal, or blade of grass. But if the seeker first prepared his spiritual vision by prayer, fasting, and all night vigil, he could see a wide, shallow sheet of water brimming with fish and swimming reptiles while great flocks of ducks and birds floated on its surface or circled in the air above. Animal tracks line the shores for Ataga'hi is the animals' medicine lake. If a wounded creature makes its way here and plunges into the water, it will emerge healed. Because the lake has these sacred powers the animals keep it invisible, hidden from ordinary human sight.



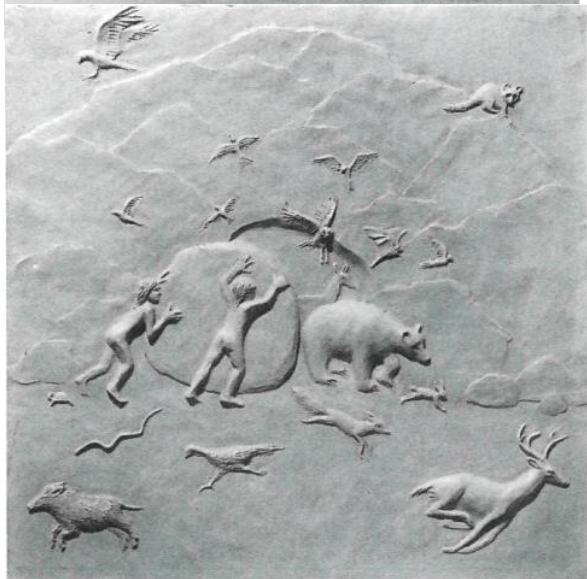
Medallion 10 Text

Throughout Tennessee early peoples built temple mounds, flat-topped pyramid structures with a grass-roofed building on the summit. Some of these sites were located at Chucalissa near Memphis, at Savannah/Pittsburg Landing (which was the site of the Civil War battle of Shiloh), at Hiwassee Island, at Dallas Island (now submerged under Chickamauga Lake), and in Chattanooga at the place where Citico Creek joins the Tennessee River. During the Civil War, Citico Mound was used as a rest spot for troops. A tunnel was dug into the mound but the sound of the cannon celebrating Lee's surrender caused the tunnel to collapse. Amateur investigators continued to explore the site until it was demolished in 1915 to build Dixie Highway, which later became Riverside Drive.



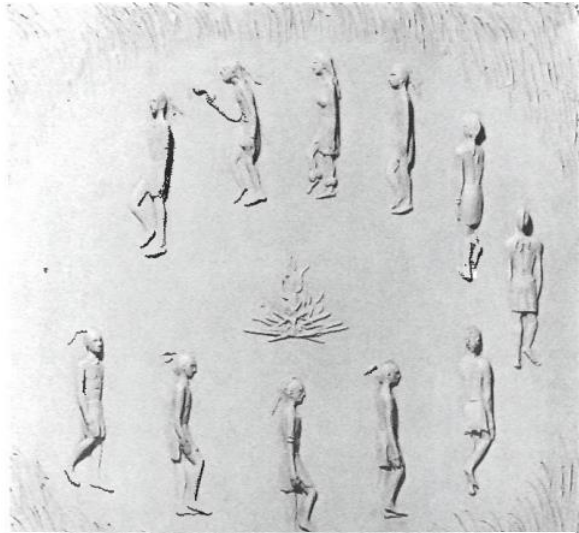
Medallion 11 Text

In the far reaches of the past, Selu entrusted her two sons with a mysterious and difficult task. She instructed them to kill her and bury her body. Then, she said, they must keep watch beside the grave for seven days. From her buried body grew a wondrous plant, but because the unhappy boys had not kept vigil exactly as instructed, the plant was barely able to push its way out of the ground. The mother had given the gift of corn to her sons, but their weakness resulted in farming becoming hard, difficult work.



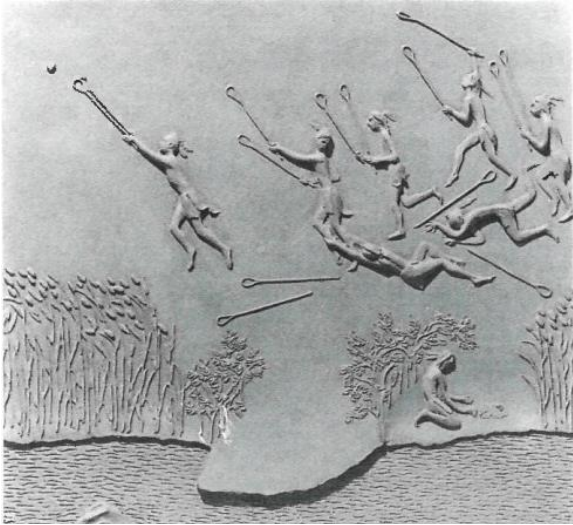
Medallion 12 Text

Kanati was a great hunter who always brought home deer. His ambitious young sons, eager to learn the secret of his hunting success, followed him into the woods. There they saw him push aside a rock covering the entrance to a large cave. One deer escaped and Kanati quickly felled him. Made bold by their knowledge, the boys decided to emulate the great hunter. A few days later they approached the cave and, with much effort, pushed aside the rock. Out came one animal, then another and another. The boys struggled and tugged, but they could not roll the rock back into place. All the animals darted out to freedom, quickly scattering into the forest. Because of these impetuous sons, hunting became a difficult and demanding skill.



Medallion 13 Text

For the Cherokee, the sole purpose of war was to avenge a death. Before a war party went forth to battle, the braves undertook purification rites such as the dance shown here. A warrior wearing a snake mask leads a single file of dancers in a counter-clockwise pattern of movement. He is followed by the Singer, then comes a woman wearing turtle leg rattles. The other warriors follow behind her, imitating animals in their movements. This helps them acquire the swiftness and stealth of animals, abilities that allow them to surprise their enemies. By waging a retaliatory war the warriors restore balance to the cycles of life and death.



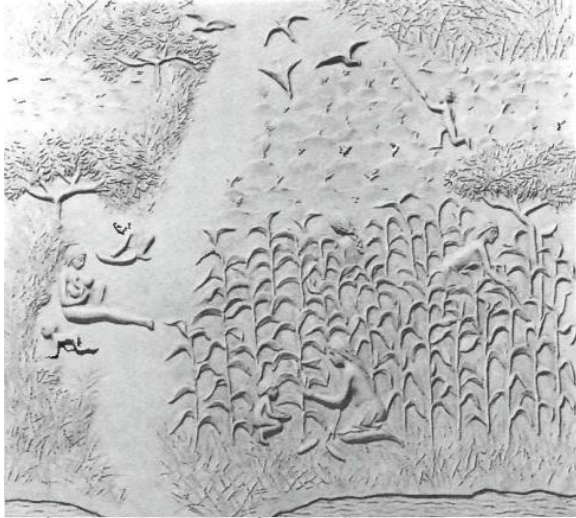
Medallion 14 Text

The ball game was an important part of Cherokee life. The players trained diligently, bathing in the river as part of the preparation rites. The men were led to the playing field by the shaman who chanted prayers and sacred incantations. After a game played with sticks much like those used in lacrosse, the players again "went to the water". The ball game was an important activity which reminded the People of the great ball game between the animals and the birds when a mighty thrust sent the ball flying into the air. It hung in the sky and became our moon.



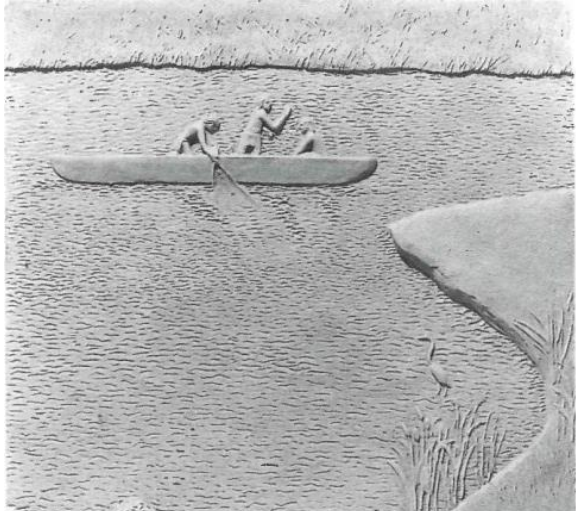
Medallion 15 Text

The Cherokee always chose to live beside the river. They built a village of varied structures, some with shed roofs and others with round, conical roofs. The sites, carefully chosen and always beautiful, had mountains in the background and murmuring water flowing by the carefully arranged structures. Today, the city of Chattanooga rises from one of those Cherokee sites.



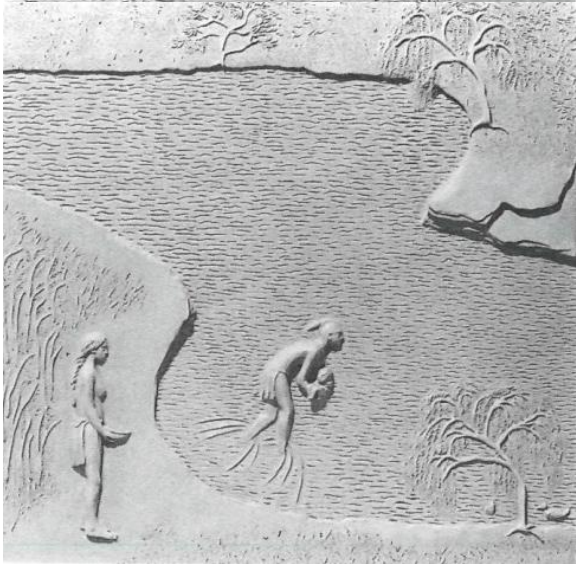
Medallion 16 Text

In Cherokee society, both women and men held important positions and had serious responsibilities. The women were primarily responsible for agriculture, farming large communal fields in the fertile river valley just outside the village. Here, beans were cultivated to twine round the cornstalks while squash, pumpkins, and sunflowers grew between the plants. Stone implements and pointed digging sticks were used, and older women helped by scaring away the birds. At harvest time, the women presented the crop to the village in the important and impressive Green Corn ceremony.



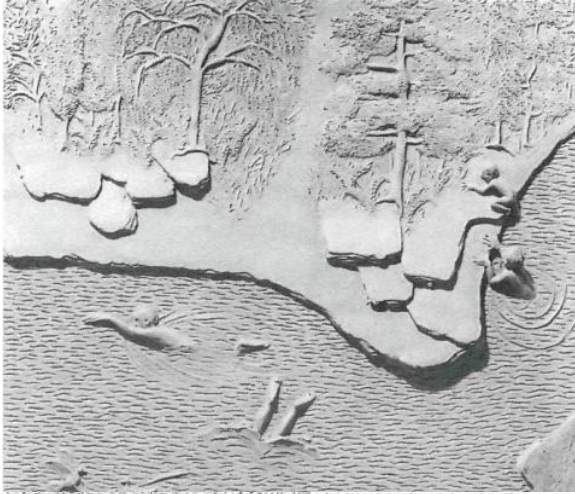
Medallion 17 Text

Fishing was part of Cherokee life. Using hooks, nets, and traps, The People shared in the bounty of the river system. Canoes plied the water until their catch filled many river reed baskets and piles of mussel shells had accumulated at the stream edge. Like the Great Blue Heron, the Cherokee depended on the water's yield. Sometimes The People would build a dam across the stream, then stir ground horse chestnuts into the water. This would paralyze the fish so they were easy to capture, but the poison had no effect upon humans. After harvesting the fish, the dam was removed. Running water diluted the effect of the horse chestnuts, and the fish recovered to await another encounter with native fishermen.



Medallion 18 Text

When a Cherokee baby was four days old, a priest carried it to the river to conduct the Long Man rites. The holy man faces the rising sun and, reciting a prayer, bent seven times toward the water, establishing the bond between the child and the river. Then the infant was handed back to the mother who rubbed its face and breast with water dipped from the stream. With this ceremony a new soul was launched on its earthly journey.



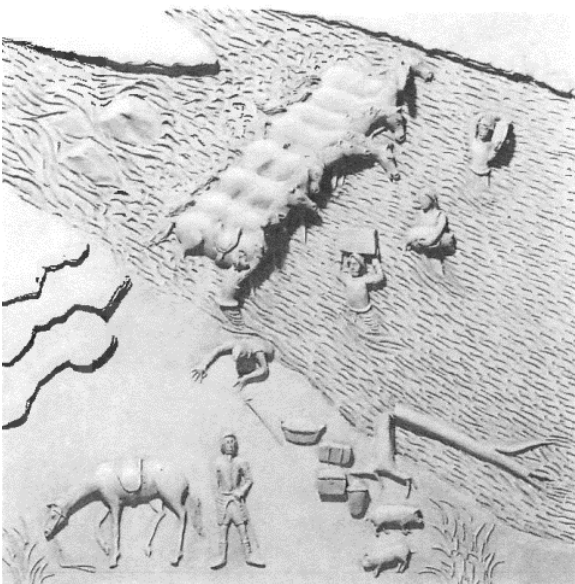
Medallion 19 Text

As the dawn broke across the mountains, the Cherokee would gather at the side of the river. Father or priest would stand behind each person and recite a prayer. When the last syllable of the sacred song had been uttered, the Cherokee would plunge into the life-renewing waters of the stream. This ceremony would be conducted each day or on the occasion of the new moon. A rite of cleansing and purification, it was a favorite practice of the tribe's young men.



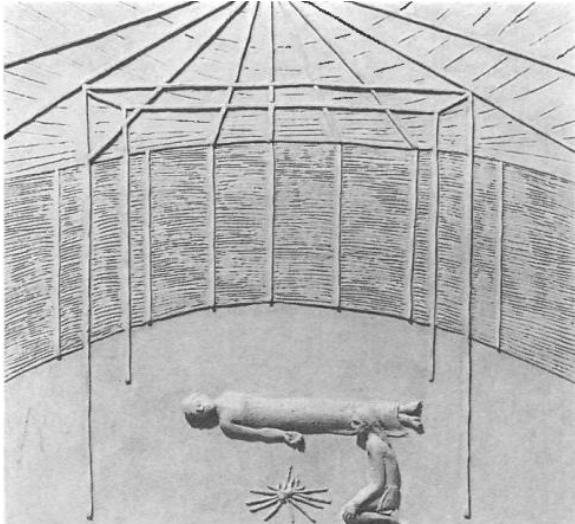
Medallion 20 Text

The People observed animals closely, admiring some animal traits so much they wished to acquire them. Certain practices helped achieve these bonds with animals. If a woman's hair was braided with eel skin it would grow longer. Scratching a child's palm with crayfish would impart a strong grip, while scratching the tongue with cricket would give the gift of melodious speech. By rubbing his body with eel skin, the ballplayer intended to be slippery in the game. In the Cherokee world view, animals have superior powers because they predate mankind. However, by practicing certain sacred rites, people may cross the boundaries separating man from animals and share their special qualities.



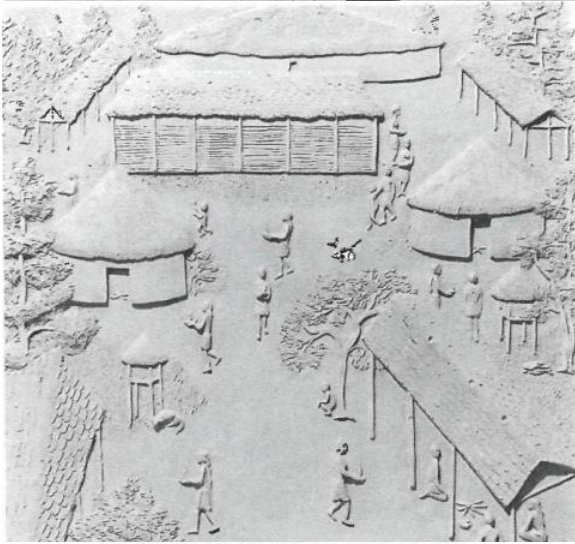
Medallion 21 Text

The steady rhythm of native life was abruptly shattered one day when there appeared a group of men like none ever seen before. Bearded, with fair skin and clothes of metal, these voracious strangers plunged through the land stripping temples of river pearls, stealing food, burning villages, making slaves of natives who befriended them. They brought with them their own animals, creatures unknown in the natives' experience. To ford the river, they led these creatures into the stream forming a dam with horses' bodies. The men crossed in the lessened flow. Even after the Spaniards had moved on in their restless search for gold, their cruel legacy lingered. Diseases unknown to this land, plague and smallpox, had come with the invaders.



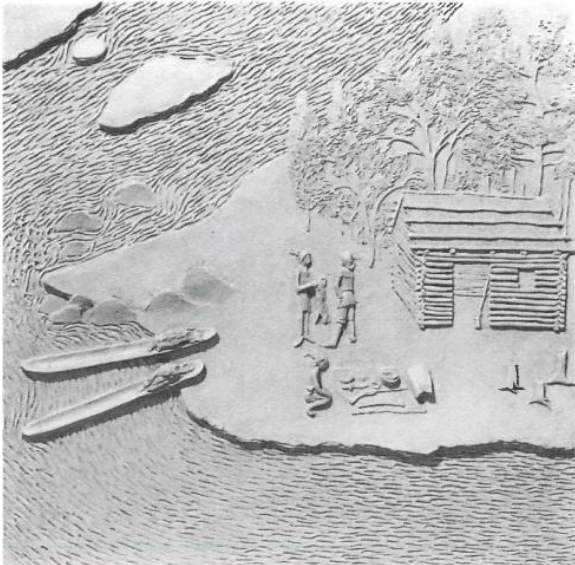
Medallion 22 Text

As the soul leaves the body in death, the Cherokee believe there is danger that a witch could claim it in an effort to extend his time on earth. For this reason, a shaman sits all night beside the body tending the fire and invoking its aid in detecting approaching witches by dropping in pinches of tobacco and reciting chants. All night the shaman waits, listening and singing. He listens to hear the call of raven, hawk, or owl signaling the witch's approach. He sings to guide the spirit safely on its way.



Medallion 23 Text

The old year was completed and the new year began with harvesting of the corn crop. Now all old corn was consumed and every fire extinguished. Men cleaned and refurbished public structures while women cleaned family dwellings. During a period of fasting, discussions of social conflicts and crimes were followed by the forgiving of most transgressions. When all voices fell silent, it was time to renew communal life by bringing forth new fire. In the heart of the village the priest used a sacred fire drill to kindle leaping sparks of new fire. From this fame all household fires were made new by women carrying coals from the community fire to rekindle the home hearth. With food and fire for a new year, The People joined in dancing and feasting, a celebration of thanksgiving and sharing.



Medallion 24 Text

After the gold-crazed DeSoto expedition had come and gone, the native peoples had about one hundred years before white men came again to the river land. In 1700 Jean de Charville established a trading post on the Cumberland where animal pelts were exchanged for such European goods as guns, powder, clothing, knives, blankets, scissors, salt, kettles, looking glasses, and liquor. Fascinated by trade, the native people came to depend upon these goods. The botanist William Bartram observed, "The white people have dazzled their senses with foreign superfluities." As the purpose of hunting shifted from food-gathering to profit, the wildlife slaughter began.



Medallion 25 Text

By the middle of the Eighteenth Century, new sounds rang out through the land, a cacophony produced by horses hooves striking rocks, bells ringing from horse collars, and drovers shouting as they guided pack trains along the river banks. Traders were carrying their wares deep into the mountains to develop new markets and create more demand for items that would wear out and have to be replaced. Chief Oconostota said, "I will sell them the land, but a few presents are as nothing compared to good land, which will last forever." Some unscrupulous traders used rum to trick their trading partners and, as always, the white men carried with them the scourge of disease, yellow fever and smallpox.



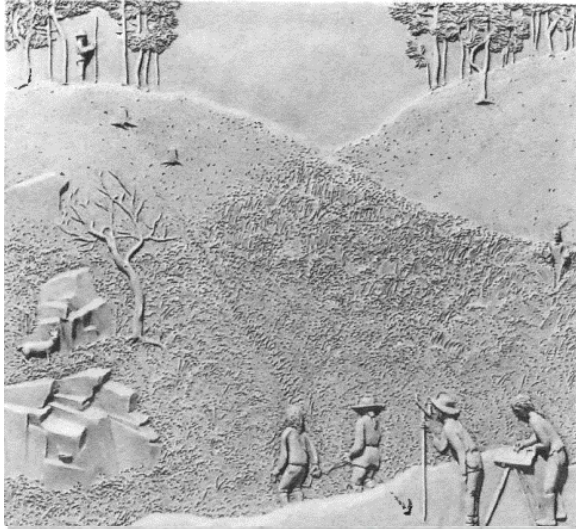
Medallion 26 Text

Quaker William Bartram, a naturalist, was commissioned by Dr. John Fothergill of London to travel into these lands, not to trade but to study. In 1773 he embarked on a four-year expedition through the Carolinas, Georgia, Alabama, and Florida to the Gulf of Mexico. In his book, *The Travels of William Bartram*, he documents his appreciation of the land and fauna and the native people he encountered in the woods. He discovered azaleas, lilies of the valley, dogwood. He wrote of steep rocky hills and cascades of clear water. When he met the Cherokee leader, Attakullakulla, he discovered that the People shared his reverence for slant life and respect for the natural environment. The Cherokee possessed great knowledge of their land and its plants, and they generously shared this learning with Bartram.



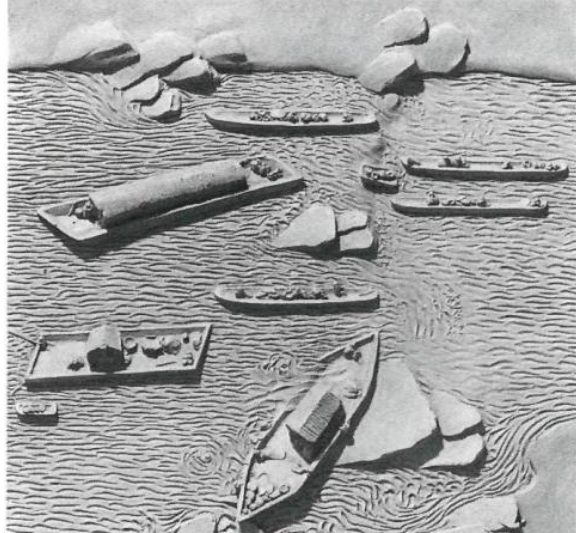
Medallion 27 Text

First, animals tracked their way through the dense forests. Native people followed those tracks creating footpaths. Then came the Long Hunters, solitary men who trapped game for a living. They used the footpaths to blaze trails for other white people to follow. The most famous Long Hunter of all, Daniel Boone, came into the territory with axes, guns and five companions to blaze the Wilderness Trail in 1775. Boone's road opened the Cumberland to settlers.



Medallion 28 Text

White men saw land as a commodity that must be surveyed, measured and mapped in order to establish property rights. To make a survey one man would sight along a compass on a Jacob's staff while two men laid a sixty-six foot chain in a direct line to a mark. A fourth man recorded the data in a notebook. As the newcomers felled trees and plotted the land, Dragging Canoe, a Cherokee leader, predicted, "You have bought a fair land, but there is a cloud hanging over it. You will find it dark and bloody." The white man's vision was different. To him, "taming" the land was a God-given duty.



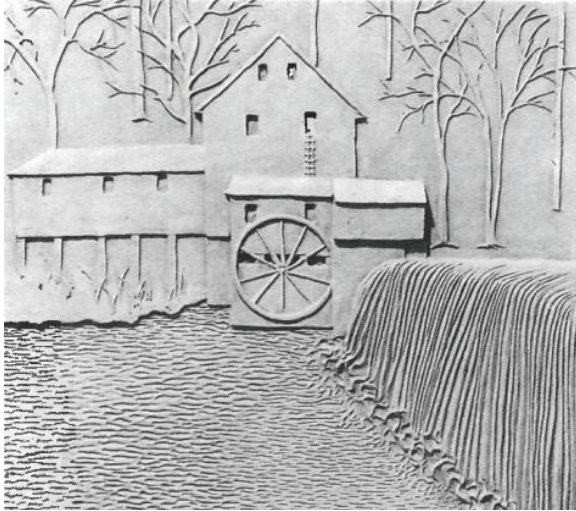
Medallion 29 Text

All Tennesseans know the epic tale of the Donelson Party's four-month journey from Fort Patrick Henry on the Holston to French Salt Spring on the Cumberland, a thousand mile journey by water. The flotilla of boats, flatboats, dugouts, and canoes carried more than 200 pioneers, many of them women and children. Donelson's diary tells of difficulty after difficulty: Indian attacks, cold, fatigue, frostbite, smallpox outbreak. Just past the famous Suck, the Jennings family boat ran aground while under fire from Chickamauga Indians on shore. The other boats continued downstream while Mr. Jennings returned fire and his passengers attempted to lighten the load by throwing cargo into the river. Mr. Jennings son and two other men scampered to safety on shore, but three women stayed on board. One of them had delivered a child the night before. A black woman on board, aided by Mrs. Jennings, got the boat off the rocks and downstream. The women were drenched and their dresses torn by bullet holes, but they survived. Sadly, the newborn child perished.



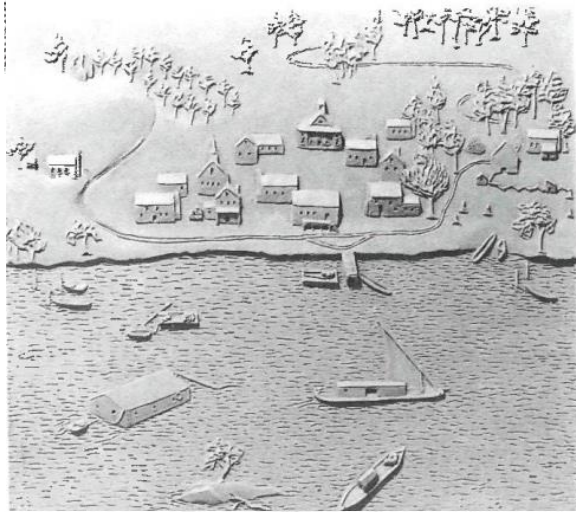
Medallion 30 Text

Settlers changed the land. They brought new tools into this place they called the wilderness and used their axes, saws, and plows to fell trees for houses and clear plots for farming. Unlike the native peoples who preceded them, these newcomers did not live in communities, but built separate homesteads where each family, including the children, worked diligently to establish a new home.



Medallion 31 Text

The newcomers used the river for more than water and fishing. They harnessed the power of moving water, employing its energy to run grist mills for grinding corn and other grains. Not only was this method more efficient, it allowed the production of a surplus for sale and/or trade. Soon water-powered sawmills produced lumber for use in construction. This quicker, more efficient building material facilitated the growth of towns and allowed settlers to build large structures such as churches and courthouses. Simple and relatively clean, these mills introduced the first use of water power in the region.



Medallion 32 Text

Towns began to spring up. They served as docking places for the boats which transported goods and people along the river highway and functioned as necessary supply centers for the scattered farms and homesteads. In these fledgling communities, the church spire and the courthouse tower often rose above the other buildings, dominant symbols outlined against the sky just as temple mounds had stood above the old riverside communities.



Medallion 33 Text

Where the Cherokee had farmed communally, the East Tennessee mountain farm was a private enterprise of one family. The land was enclosed with split-rail fences, and crops grown in single rows. A plow was essential, and there was often a mule to pull it. When there was no mule, the farmer and his family pulled the plow through the fields. Where the Cherokee never allowed a surplus and consumed the old crop completely before the new harvest, the intent of these new farms was the opposite, to yield corn to feed people and animals, to provide surplus corn for use in stills, and to be sold for necessary cash.



Medallion 34 Text

In the rolling bluegrass country of middle Tennessee, the fields were wider and larger crops were grown. These prosperous farms often centered around a large house sited in a grove of trees. Tobacco, a good cash crop, was grown and hung in barns for curing. Here, breeders developed the famed Tennessee walking horse.



Medallion 35 Text

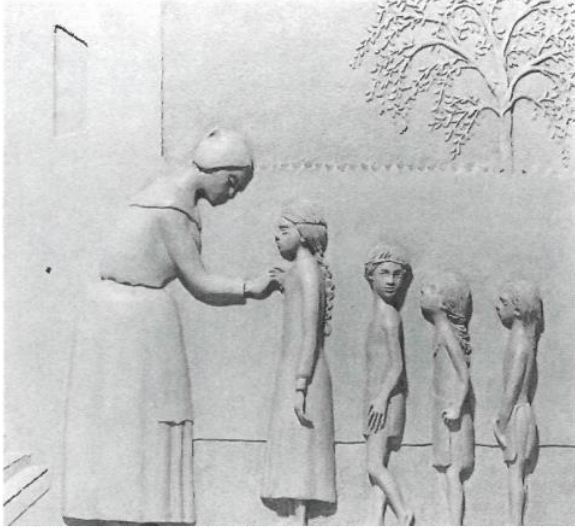
Farming in west Tennessee was often on plantations, large landholdings of flat fields where cotton was raised in quantity by black slaves working under white overseers. In great demand by the textile industry in the Northern states and in England, King Cotton brought great wealth to the plantations. These riches were often reflected in the grand display of the plantation house and its gardens.



Medallion 36 Text

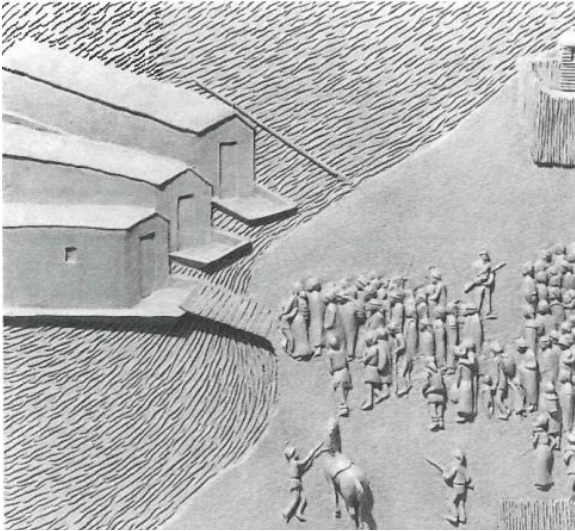
The native peoples dealt with the influx of newcomers as best they could. They negotiated treaties that were soon abrogated. They fought, only to be overwhelmed. They attempted to learn and adapt to the white ways, hoping to share in the new order. To help his people cope with the changes, the brilliant Sequoyah developed a written language for the Cherokee and brought them to literacy. This difficult time of confusion and turmoil is exemplified in the story where a white and a Cherokee meet and sit together on a log. The white man keeps edging over, pushing the other man closer and closer to the end. Finally, the Cherokee finds himself forced from the log altogether. "can't sit anymore," he says. "I suppose this is what will happen to us." To the native people it was obvious they were being pushed from their homeland.





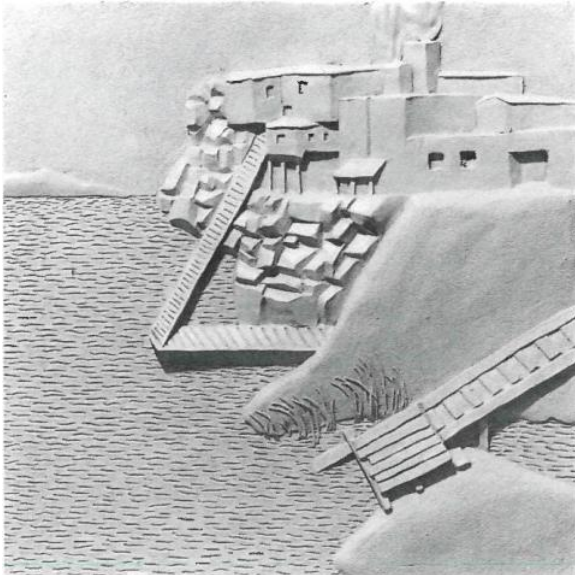
Medallion 37 Text

Some new people felt that the native populations should be educated in the white manner. Mission boarding schools were established where the children were taken from their community and encouraged to abandon native culture. They were dressed in white people's clothing and taught white people's ways and beliefs. Since clothing is a powerful symbol system in every culture, the matter of dress became a telling indication of where a native person stood in respect to his or her beliefs. A return to native customs often meant a return to native costume. Many Cherokee adapted white clothes into a costume of their own, just as they had developed their own literacy.



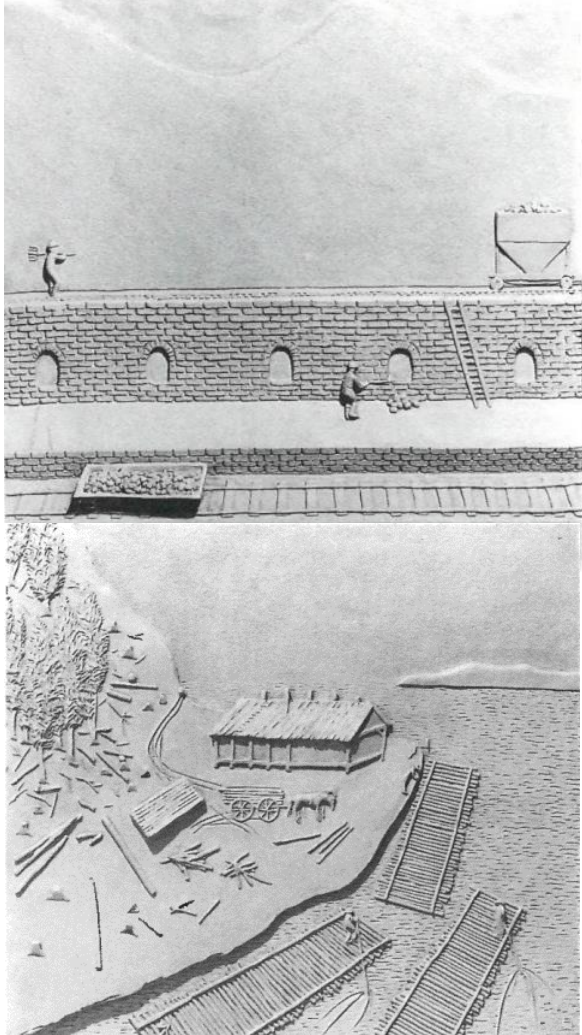
Medallion 38 Text

The attempt to adapt to white man's ways did the Cherokee no good. In 1838 these people who lived in houses and farmsteads, who wore the same clothes as their oppressors, who had learned to read and write and had established their own newspapers, who had embraced the American democratic government and its justice system, these men, women, and children were rounded up at gun point by American soldiers. Here at Ross's Landing where the Aquarium now stands, these unfortunate victims were held in stockades, then herded onto flatboats for the journey downriver. This was the beginning of the infamous Trail of Tears, the long and painful forced march to Oklahoma. The Cherokee had worked hard to adapt to white ways. According to the 1828 census, they had accumulated property worth two million dollars. Their property was confiscated. Fourteen thousand people were removed; more than a fourth died on the trail: A few escaped into the mountains to become the Eastern Band of Cherokee



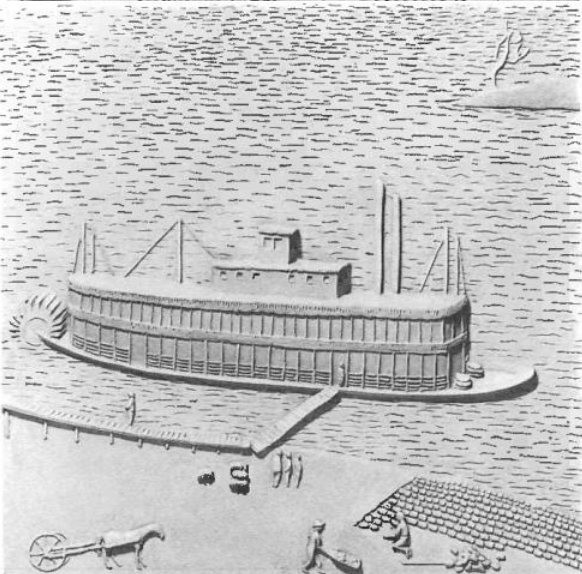
Medallion 39 Text

Although this was a predominantly agricultural region, by 1856 there were many small industries. Bluff Furnace, located on the rocky river edge just beyond Ross's Landing, was owned and run by Robert Cravens. Ramps leading from the buildings to the water allowed the unloading of raw materials and the loading of finished iron onto barges for river transport. In this large furnace Tennessee iron ore was cast into bars of raw iron for use in foundries. Bluff Furnace was one of Chattanooga's first and most important industries, a portent of the industrial society that would develop out of the economic ruins of the Civil War.



Medallion 40 Text

Because the land held valuable mineral deposits, such as copper and coal, quarries and strip mines developed. Coal could be mined and used to produce coke for the production of steel. Dug from underground veins, the coal was transported to large ovens to be turned into coke. These log-fired ovens consumed much timber. Because there was a plentiful supply from the large forests, the industry flourished. A number of companies sprang up, such as the Tennessee Coal, Iron, and Railroad Company, Rockwood Mines owned by Roane Iron Company, Etna Mines at Raccoon Mountain, Soddy Coal Company, Alden's Ridge Coal Company and others. With the advent of mining, the release of industrial waste into air and water and land had begun.

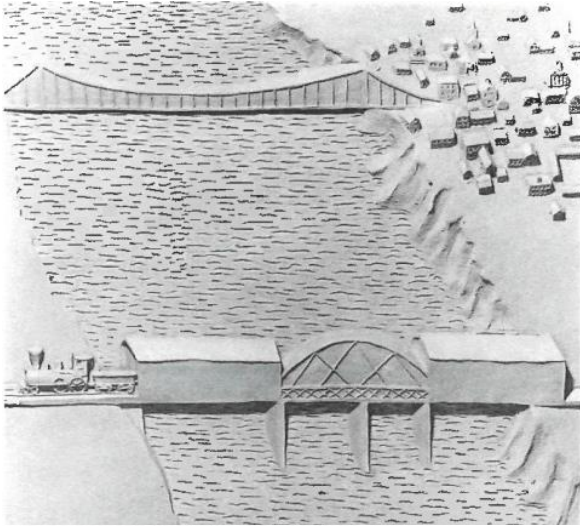


Medallion 41 Text

To the early settlers, the old forests seemed an endless resource providing lumber and fuel. Oak, poplar, walnut, hickory, ash, beech, chestnut, cedar, and other woods abounded. Not only was there lumber for building, wood was available for the manufacture of plows and other agricultural implements, furniture, pumps, handles and wooden utensils. Trees felled in the woods could be lashed together and floated down the river to lumbering centers like Nashville and Chattanooga. For hundreds of years this forest bounty was taken for granted. It was well into the 20th-century before management of cutting operations was instituted as a method of conservation.

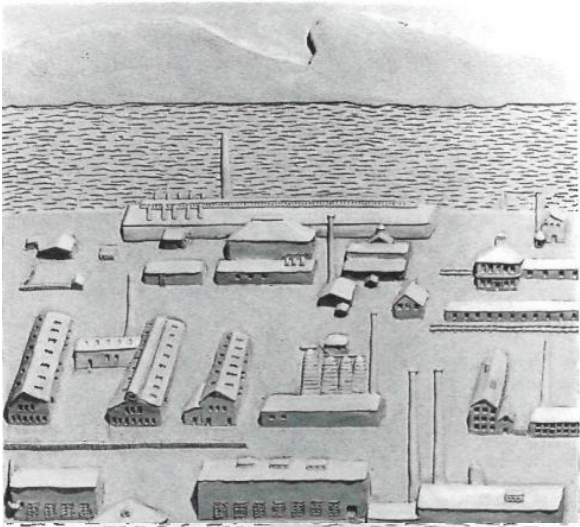
Medallion 42 Text

Rivers are moving pathways through the land. From earliest days, people made use of the water to move themselves and their goods from place to place. The Tennessee River presented certain navigational problems because of the rapids at Muscle Shoals, the long meandering path to the Mississippi, and the lengthy northward bend to the Ohio. Nonetheless, sternwheeler steamboats carried passengers and cargo on the Tennessee, docking at cobblestoned wharves like the one that was located here at Ross's Landing.



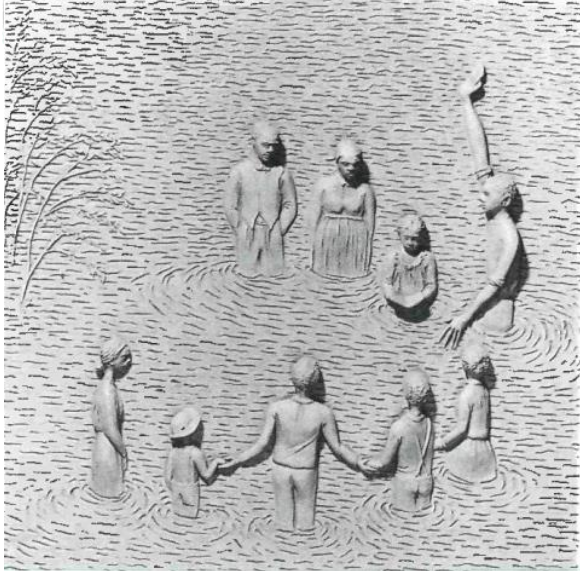
Medallion 43 Text

Steamboats were soon supplemented and eventually supplanted -by steam railroad engines. The Nashville and Chattanooga, the first railroad in Tennessee, was completed in 1854. its tracks paralleled the river in many places. From 1850 through the 1880s, thousands of miles of track were laid throughout the region. In many towns, special bridges were built to carry these tracks over the water. Goode and people were moving faster than ever, and towns located along the railroad stops were sure to flourish.



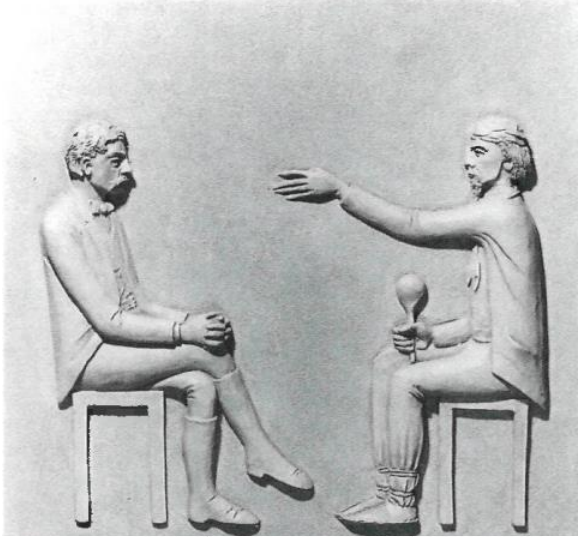
Medallion 44 Text

The church spires and courthouse towers of earlier days were joined by a new silhouette rising on the skyline: smokestacks. Industries grew along the riverside since water allowed barge access and carried away waste products. Smoke from the industrial towers mingled with the mists of the mountains as workers care to live in the towns, many of them leaving farming to find a new way of life in the factory.



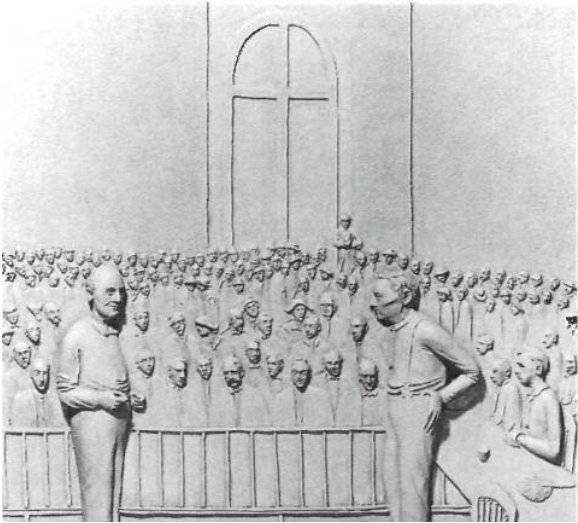
Medallion 45 Text

Just as the Cherokee had expressed the faith of their culture in the Long Man rituals, the river became the setting for the Christian rite of baptism. A congregation gathers by the water, singing songs and praying. The minister immerses the convert in water, signifying death of the old sinful life and rebirth to a new, purer life of faith in Jesus Christ. The community is strengthened in faith and unity by sharing this sacred moment.



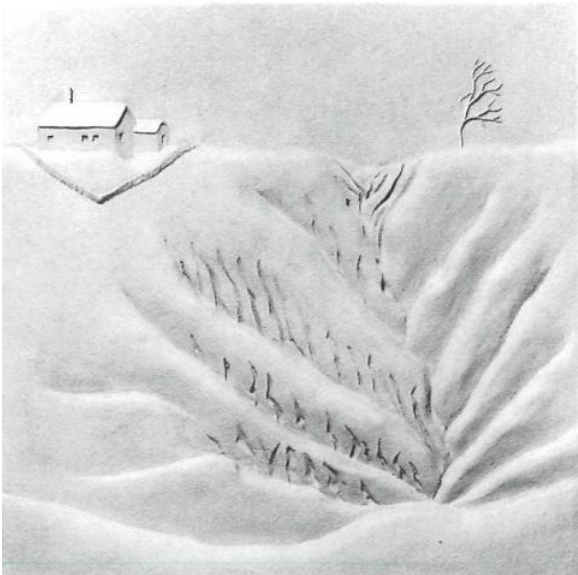
Medallion 46 Text

As William Bartram had a century before him, James Mooney traveled to the East Tennessee mountains seeking knowledge. Sent by the Smithsonian Institution in 1887, he wished to learn from the Eastern Band of Cherokee about plants and plant lore relating to medicinal practice. The young man of twenty-six encountered Swimmer, an A yun ini (priest, doctor, keeper of tradition) in his fifties. Swimmer spoke no English; Mooney spoke no Cherokee. With the help of an interpreter, the elder man began to instruct the younger. Thanks to Sequoyah's Cherokee Syllabary, the People had notebooks containing formulas, songs, prayers, instructions for ceremonies, and information about pre-contact religion. Swimmer presided at Green Corn Festivals, ceremonial ball games, and other tribal functions. He shared his knowledge and experience with Mooney and encouraged others in the tribe to do so. Mooney developed great respect for the native knowledge and cultural forms and urged that they be encouraged and saved.



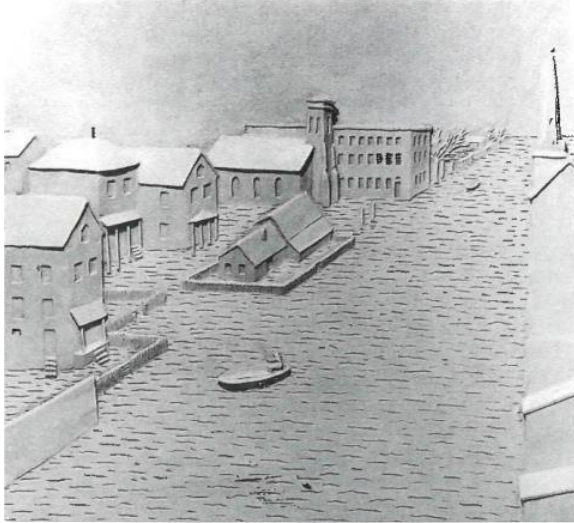
Medallion 47 Text

Conflicts concerning beliefs about man and nature were not confined to clashes between cultures. In 1925 the famous Scopes trial was held in Tennessee, trying a schoolteacher for presenting the theory of evolution. William Jennings Bryan argued that the Christian creation beliefs detailed in the Bible were the only valid understanding of nature while Clarence Darrow defended the accused man's right to scientific theory. Reports on the trial were conveyed throughout the nation and the world by radio, newspapers, and telegraph. The impact of new communication technology was dramatically illustrated as this Tennessee trial became a momentous occasion in national and world history. The Tennessee anti-evolution law was upheld.



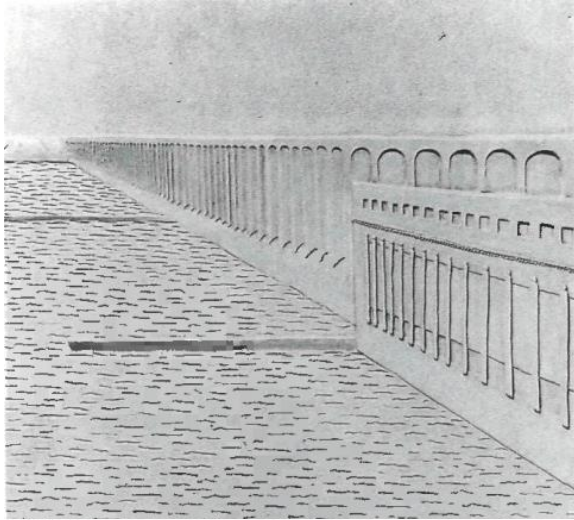
Medallion 48 Text

The cutting of the great forests left the land prey to erosion. In addition, certain farming practices and air pollution such as the acids from copper smelters at Ducktown -aggravated the problem. The denuded earth could no longer hold the rainwater. Now the rains cut into the soil with a fierceness that left the land scarred and barren. The water rushed down these new pathways, carrying valuable topsail with it. With land wearing out and washing away, farms that had sustained families for years became deserted.



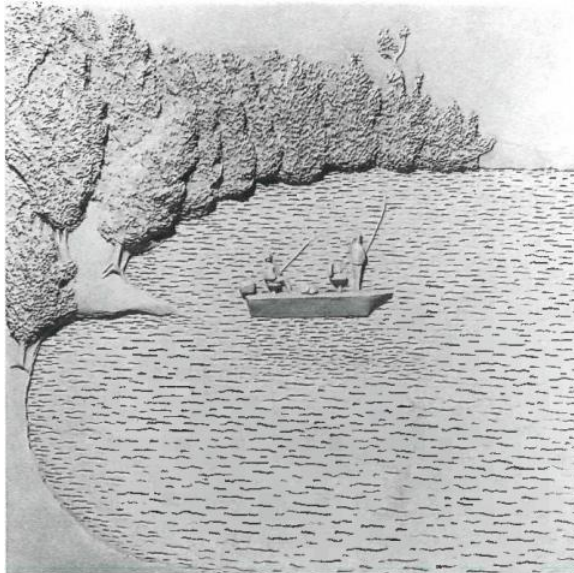
Medallion 49 Text

Improved transportation fed the growth of riverside cities. More land became covered with buildings and asphalt which prevented rain from penetrating the ground. The amount and quickness of water run-off was increased. The rivers and streams of the region could not handle the increased flow resulting from the clearing of the forests and this increasing urbanization. Flooding became pervasive throughout the region causing loss of property and lives and creating much suffering. The afflicted towns began to pressure the government for help with this problem.



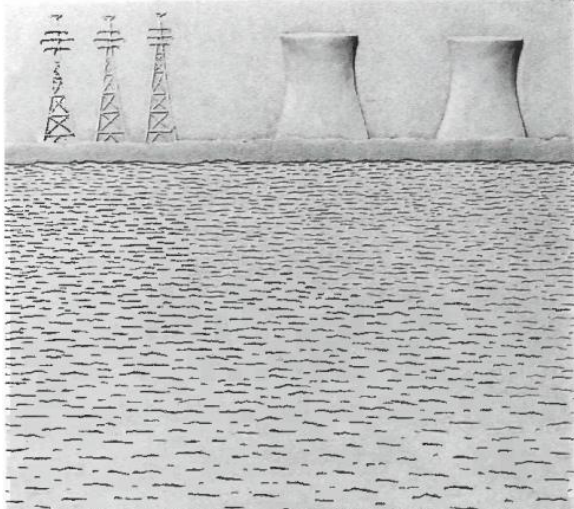
Medallion 50 Text

The Tennessee Valley Authority was founded as a conservation agency with goals of food control, retirement of poor farmland, improvement of navigation, and power production. The enabling legislation enacted by Congress speaks of "the development of the natural resources of the Tennessee River drainage basin and its adjoining territory for the general social and economic welfare of the Nation*" An ambitious program of building dams along the waterway changed the wild river into a string of lakes. Once again, life in the region was changed. Like a dream of the past, the ancient temple mounds of Dallas Island lie submerged beneath the waters of Lake Chickamauga.



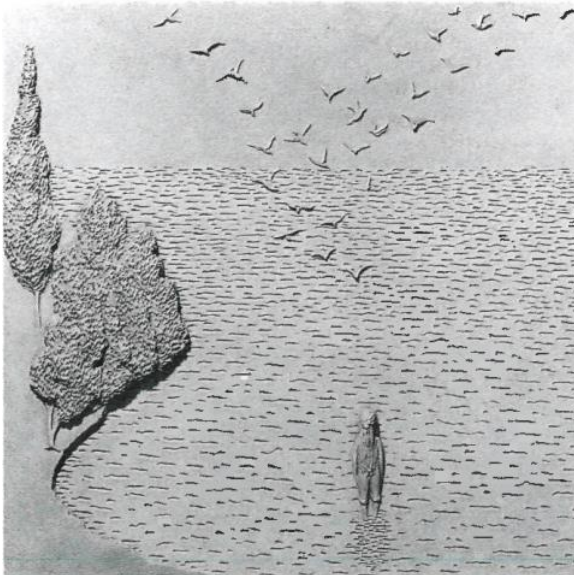
Medallion 51 Text

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Medallion 52 Text

When the World War II decision was made to build the atomic bomb, the hydroelectric power available through the TVA prompted the government to establish Oak Ridge as an atomic research site. After the war, a search for peaceful uses of atomic energy saw TVA become a leader in the use of nuclear reactors as a source of power generation. Cooling towers from those plants have become now silhouettes in the landscape, a symbol reflecting both new technologies and new environmental concerns.



Medallion 53 Text

Although the story of the Tennessee River is one of change, certain constants remain: the land, plants, animals, water, people. Together, these are joined in life's ever-unfolding drama as they were in the past, as they are now, as they will be in days to come.